

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

DOT#12 00 / 1 2 7 5
09/485071

1/26

FIG.1a.

Synthetic DNA Substrates Mimicking Transcriptional
Cis-Regulatory Elements

GC-box a: 5'-GGGAATTCAGGGGCGGGCAAGGATCCAG-3'
GC-box b: 5'-CTGGATCCTTGCCCCCGCCCCCTTGAATTCCC-3'
GC-box b MET: 5'-CTGGATCCTTGCCCC^mCGCCCCCTTGAATTCCC-3'
CRE a: 5'-GGGAATTCAAATGACGTCAAAGGATCCAG-3'
CRE b: 5'-CTGGATCCTTTTGACGTCATTGAATTCCC-3'
CRE a MET: 5'-GGGAATTCAAATGA^mCGTCAAAGGATCCAG-3'

BEST AVAILABLE COPY

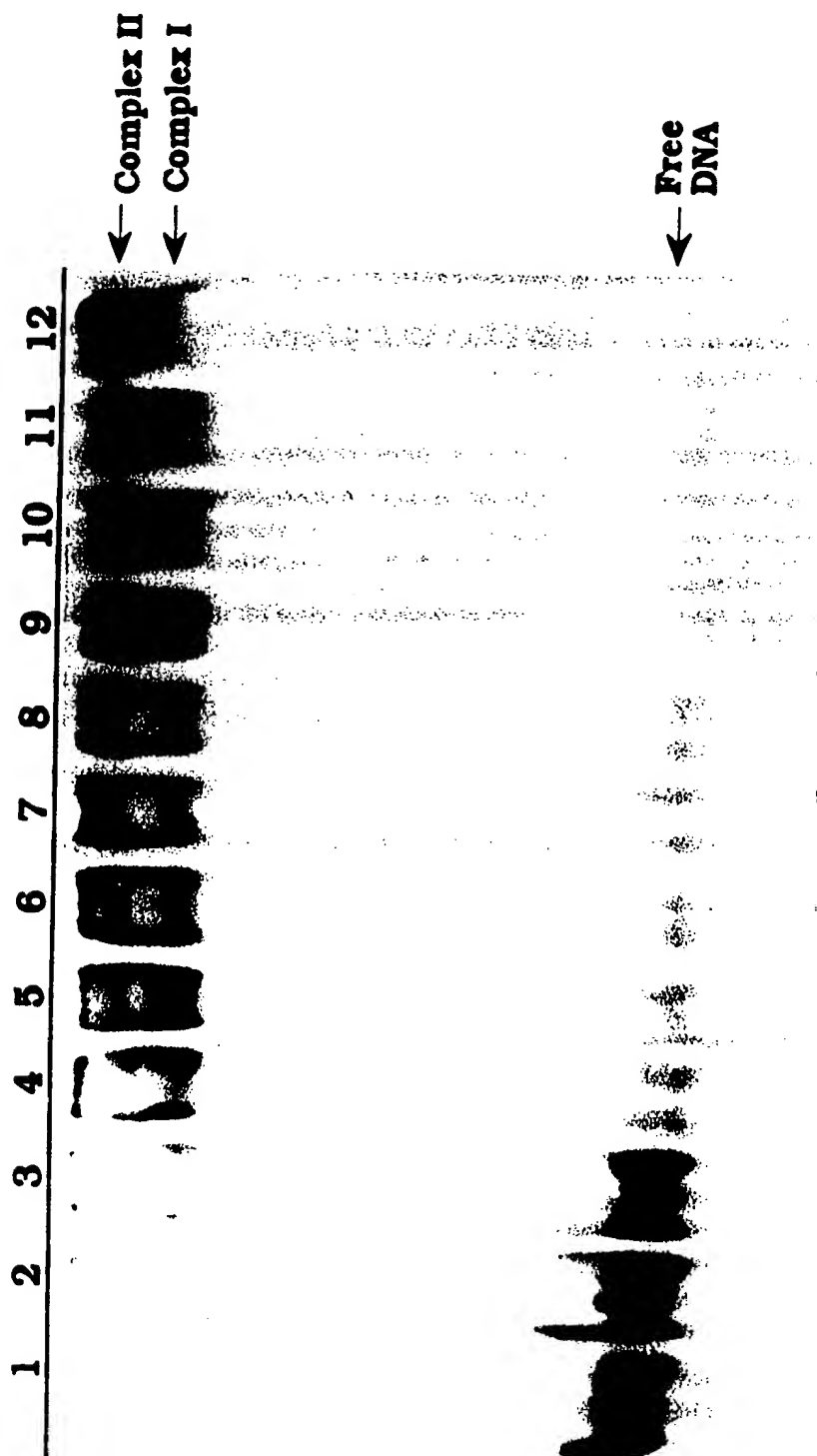
SUBSTITUTE SHEET (RULE 26)

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

PCT/US 98/12351
RO/US 11 SEP 1998

3/26

FIG. 2.



SUBSTITUTE SHEET (RULE 26)

BEST AVAILABLE COPY

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

PCT/US 98/12351
RO/US 11 SEP 1998

4/26

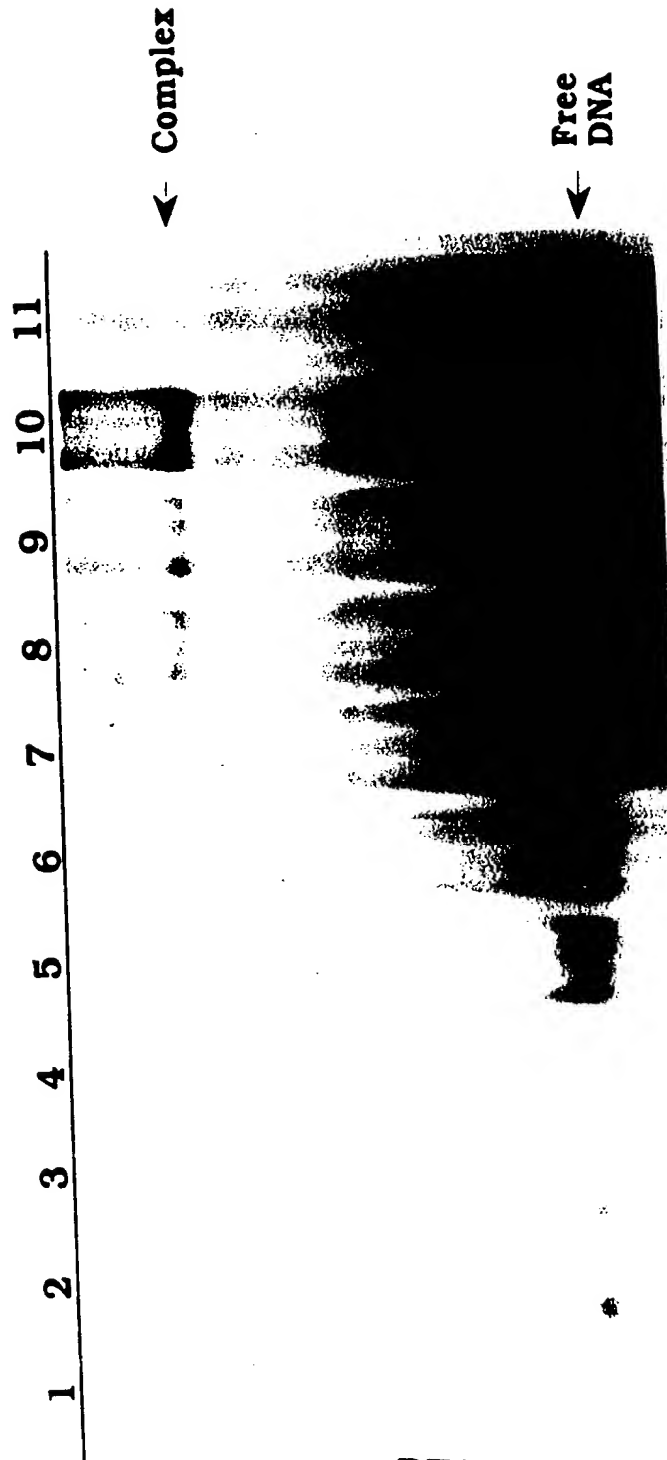


FIG. 3.

BEST AVAILABLE COPY

SUBSTITUTE SHEET (RULE 26)

▼ Complex

Free DNA

FIG. 5

1 2 3 4 5 6 7 8 9

BEST AVAILABLE COPY

SUBSTITUTE SHEET (RULE 26)

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

PCT/US 98/12351
RO/US 11 SEP 1998

7/26

FIG. 6.

Primer C

5'-GGGAATTCATGGATCCTAAANNNNNNNNNNNNNNNNNNCGNNNNNNNNNNNTTCAAGCTTGTGAATTCCTCC-3'

3'-CCCTTAAGTACCTAGGATTTNNNNNNNNNNNNNNNNNNCGNNNNNNNNNNAAAGTTCTGAACACTTAAGGG-5'

Primer D

BEST AVAILABLE COPY

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
RAFTSMAN		

PCT/US 98 / 12351
RO/US 11 SEP 1998

FIG.7a.

8/26

STARTING POPULATION

GTGGGATGGGAACGAGTTGAGGAGGG
AGTGGTATGTATCGATTATACGTTGGG
GGAGGAAGTTTACGTATGGTATGGGG
TGGGAGGGGATTCCGAGGTGAGAGTTG
ATAAAGTATTAGCGTAAGAGATGAAG
TGGAGGAGTTTACGGTGTAATTGTTT
GGAGTAGGTAGACGTTAAGTATGATG
GTGGGAAGGGGACGAATTTGAAGGTG
TGGTAATGTATTCGTAAATGTAAGGG
TAATAGGGGAGACGTAAATGTAAGGG
GAGTGTAGAAGTCGTAAATAGATTTAG
TGAGTAGGAAAGCGAAGAGGTGTTGG

FIG.7b.

GENERATION 1

TAGGTATTGGGGCGGAAGGTGGGTGG
GGGGGTATAATACGGTGTTGGTAGGG
GGGTTGGGGTTTTCGTGTGGGGGGGTGT
TGTGGGTATGGGCGGTGATAGTGAAG
GGATGATGGGGTCCGAGAGTGGTGGTG
TAGTGGGTGGAGCGAGTGGTGGTTGG
AGGGTGGGTGGGCGGAGTTGTTGTTG
GTGAGGAGGGAGCGGGAATGGGGGTG
GGGGGTGGGGAGCGGAGGGGGGGTGAG
TGTTGGAGGGGGCGAAGGTGGTTTTG

FIG.7c.

GENERATION 3

GGGGGGGGGGGGCGAGGGGTAGATGG
GGGGGAGGGGTTCCGGTGATAGGTAGG
GGGGGGGGGGGTACGTGGGATGGTATG
GTGTAGGGAGTGCGAGGGGGGTGTAAA
GGGGGGGGGGGTAGCGGTTAGATGGTGG
GGGGTGAGGGGGCGGGGGTTAGTGGG
GAGGGGGGGGTTGCGTAGGGGGGGTGGG
TGTGGAGGTGGGCGGGAAAGGTGATG
GGGGGGGATGGGACGGATGGGGGGGGG
GGGGGTGGGGTGCGAGAGAGTTGGGG
GAGGGGTGGAGGCGGAGGTGGGTTGG
GGGGGGGGGGGGCGATAAGGGGTGTG

BEST AVAILABLE COPY

9/26

FIG.7d.

G#	GpT	TpG	GENERATION 5	GpT	G#
11	.	.	TGGGGGGGGGCGGGGAGTTGA	.	7
11		...	GGGGGGAGGGCGGATAGTTGTG	...	5
10	GGTGGGTGGCGGTGGGTGTGG	...	9
10		.	GAGGGGGGAGCGGAGGGGTTGGG	.	9
10		...	GGGGGGAAGGCGTGGGTTGGGTG	...	8
10		...	-GGAGGGGGCGATGGGGTGGTGG	...	8
10	GGGTGGGGTGGCGTTGTGGGTGGGG	...	8
10	GGAGGGGGTGGCGGTGGGTATGTGG	...	7
10	GGGAGGGTGGCGCGGTATGGAGTGG	...	7
10	GGGGGGGAGTGCGTTGATGGGTGTG	...	6
9	.	.	GGGGGGGTGGATCGTGGGGGAGGGG	.	10
9	..	.	GGGGTAGGGTGGCGGGGGGGTATGG	.	9
9	GGGATGGGGTGGCGGGGTATGGGGGG	.	9

BEST AVAILABLE COPY

FIG. 7e.

SUBSTITUTE SHEET (RULE 26)

BEST AVAILABLE COPY

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

PCT/US 98 / 12351
RO/US 11 SEP 1998

11/26

FIG. 7f.

GENERATION 5

G#	GpT	TpG	GpT	G#
8	8
8	8
8	7
8	6
7	10
7	10
7	9
7	9
7	9
7	8
7	8
7	7

BEST AVAILABLE COPY

APPROVED	O.G. FIG.	
BY:	CLASS	SUBCLASS
DRAFTSMAN		

PCI/US 98/12351
RO/US 11 SEP 1998

12/26

FIG.7g.

GENERATION 5

G#	GpT	TpG		TpG	GpT	G#
7	..	.	GGGGGTAAAGTCCGGTGGTTGATGG	...	..	7
7	GTGGAGGTGTTGCCGTAGTGTGGGAGG	..	..	7
7	GTGGGGAAATGTCGCGTTATGGTGGGG	..	..	7
7	GGGATGTGGTAGCGGGGGTGTGTTAG	..	...	7
7	GGGTAGGAGTTCGTAGGGGTGTGT	..	...	6
7	GAGGTGTTGATCGGGATGATGGATT	..	..	5
6	.	.	TGGGGGAAATAACGGGGAGGGTGTA	.	..	8
6	GGAGTAGGGTTACGTGGTGGTAATGG	...	..	6
6	.	.	GAGGAGTAAAGGCCGTGTGTGTGGTG	.....	...	6
6	TGGATGAGAGTCCGTGTATGATAAGG	..	.	4
5	..	.	AGGGTTAGTGAAACGGGGGGAGGTGG	.	.	10
5	.	.	GAGAAAGGTAAACGTGGGGAGGGGA	.	.	9

BEST AVAILABLE COPY

13/26

PCT/US 98/12351
RO/US 11 SEP 1998

FIG.8a.

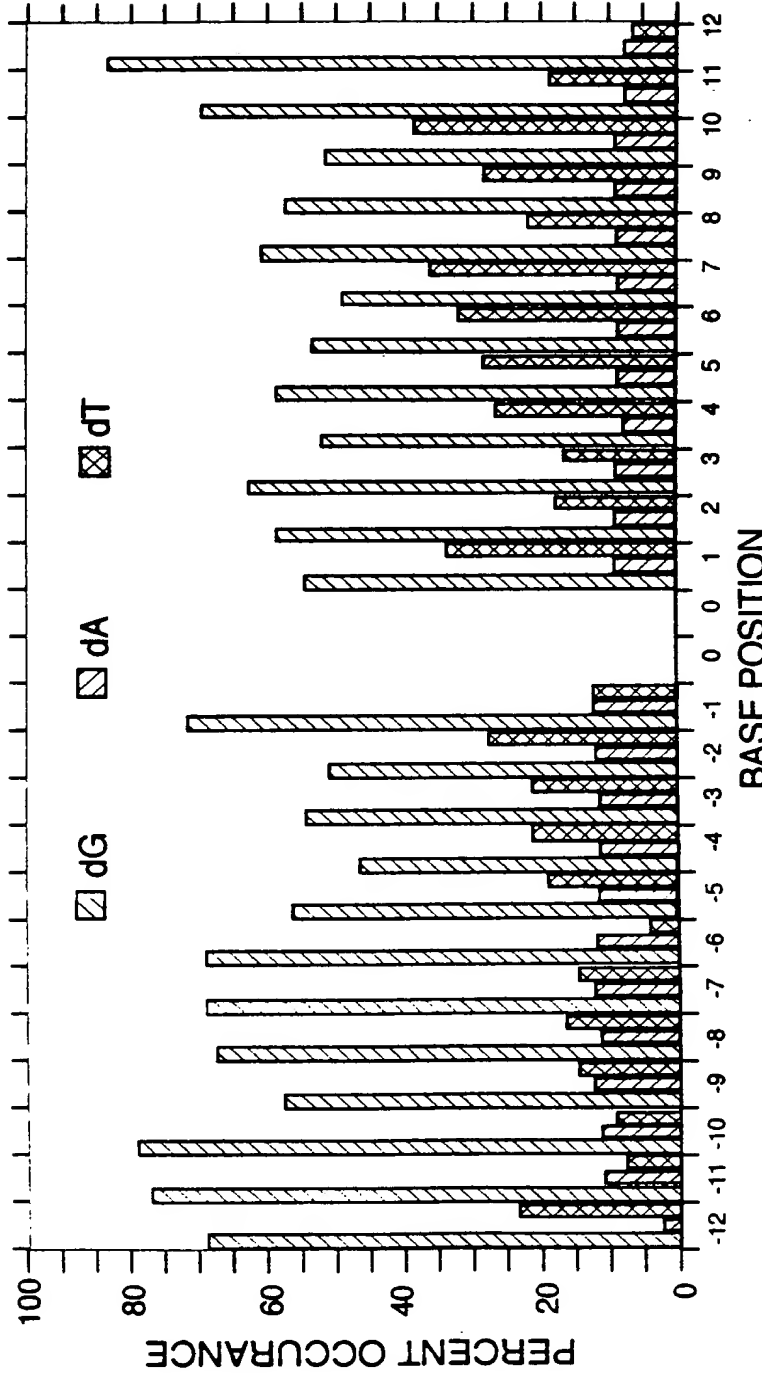


FIG.8b.

	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	C	G	1	2	3	4	5	6	7	8	9	10	11	12
%G	73	82	84	61	71	73	73	59	49	57	53	76	0	100	57	61	65	53	61	55	51	63	59	53	73	88
%A	2	10	6	22	10	10	22	20	29	20	18	12	0	0	10	20	18	20	10	12	12	14	12	6	6	6
%T	25	8	10	16	18	16	4	20	22	22	29	12	0	0	33	18	16	27	29	33	37	22	29	41	20	6
%C	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0

BEST AVAILABLE COPY

FIG. 9a

TGGGGGGGGGGCGGGGGAGTTGA
 |||||
 GAACAATGGGGCGCTGGGGGGGGCGGGGGCTTAGCTATGTCAGAAATTC
 5100 5110 5120 5130 5140

GGGATGGGGTGCGGGGTATGGGGG
| | | | | | | | | | | |
GGGAACAGCAGCACCGAAGGGGTGCGGGGTATGGAGGGTCCCGGGCTTGAGC
870 880 890 900 910 920

GGTGGTGGTGATCGGGGTTGTGATGG
 ||||| | | ||| ||||| ||
 TGTCTTCTTGTGGTGTAGAGGTCGTGGTTGTGATGGTGGCTCGGTTGTGTGT

BEST AVAILABLE COPY

Variable	Mean	SD	Min	Max
Age	34.5	10.2	21	55
Gender	0.5	0.5	0	1
Marital status	0.6	0.5	0	1
Education	12.5	1.5	9	16
Income	15.2	8.5	5	35
Occupation	1.2	0.8	0	2
Health status	0.7	0.4	0	1
Stress level	2.1	0.9	1	4
Life satisfaction	3.8	1.2	2	5
Resilience	4.2	1.1	3	5
Optimism	3.5	1.0	2	4
Self-efficacy	3.9	1.1	2	5
Emotional stability	3.2	0.8	2	4
Prosocial behavior	3.6	0.9	2	4
Empathy	3.4	0.8	2	4
Agreeableness	3.7	0.9	2	4
Conscientiousness	3.3	0.8	2	4
Neuroticism	2.8	0.7	2	4
Openness	3.1	0.8	2	4
Extraversion	3.0	0.7	2	4
Intelligence	100.5	15.2	80	120
Memory	85.2	12.5	70	100
Attention	78.5	10.8	65	90
Processing speed	92.1	11.5	75	105
Verbal ability	88.3	13.2	70	100
Nonverbal ability	82.7	12.8	65	95
Fluid intelligence	75.4	11.0	60	90
Crystalline intelligence	85.6	12.1	70	100
Executive function	79.8	10.5	65	90
Working memory	72.3	9.8	60	85
Inhibition	76.5	10.2	65	85
Planning	78.9	10.7	65	90
Problem solving	74.2	10.1	60	85
Decision making	77.6	10.4	65	85
Emotional regulation	73.1	9.5	60	85
Stress management	71.5	9.2	60	85
Resilience (repeated)	70.8	9.0	60	85
Optimism (repeated)	68.4	8.8	60	85
Self-efficacy (repeated)	69.2	9.1	60	85
Emotional stability (repeated)	67.5	8.5	60	85
Prosocial behavior (repeated)	66.8	8.2	60	85
Empathy (repeated)	65.9	8.0	60	85
Agreeableness (repeated)	64.7	7.8	60	85
Conscientiousness (repeated)	63.5	7.5	60	85
Neuroticism (repeated)	62.3	7.2	60	85
Openness (repeated)	61.1	7.0	60	85
Extraversion (repeated)	60.0	6.8	60	85

FIG. 9b.

GAGGGGGGAGCGGAGGGGTTGGG

DEFINITION neuronal dihydropyridine-sensitive L-type calcium channel alpha-1 subunit mRNA, 3' UTR.

ACCESSION GB_RO:MUSDHPCC

CCCCACCCACAAGCCACCCCACCC

BEST AVAILABLE COPY

DEFINITION chromosome 22 DNA *SEQUENCING IN PROCESS*, CpG island

ACCESSION GB HTG:HS170A21

18/26

FIG. 10.

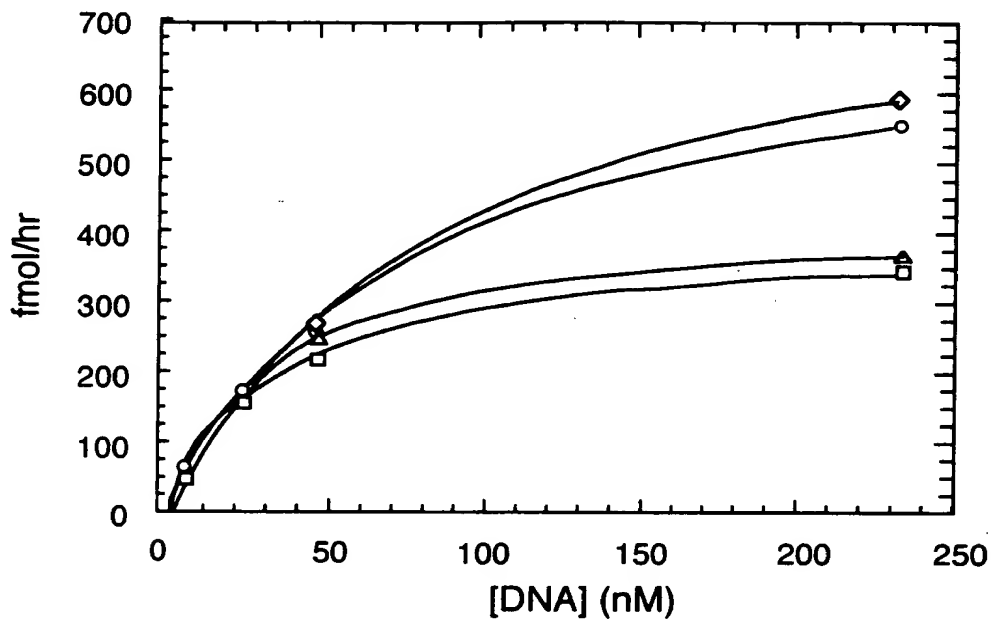
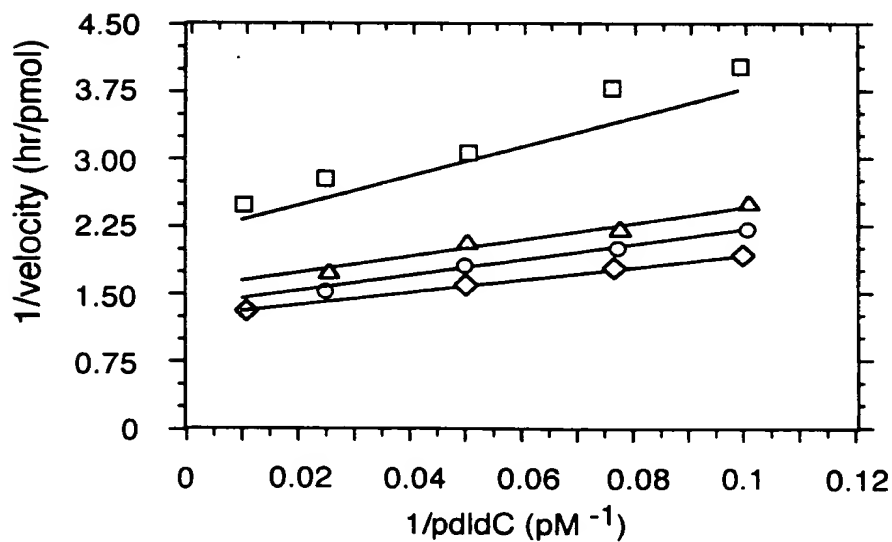


FIG. 13.



BEST AVAILABLE COPY

20/26

FIG.12a.

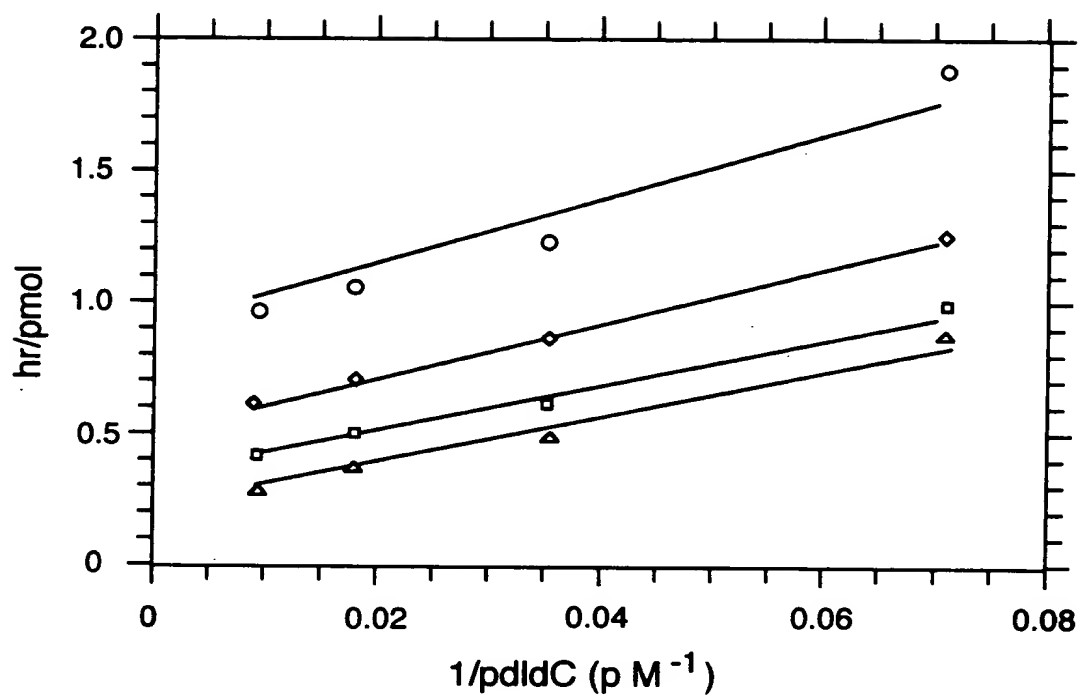
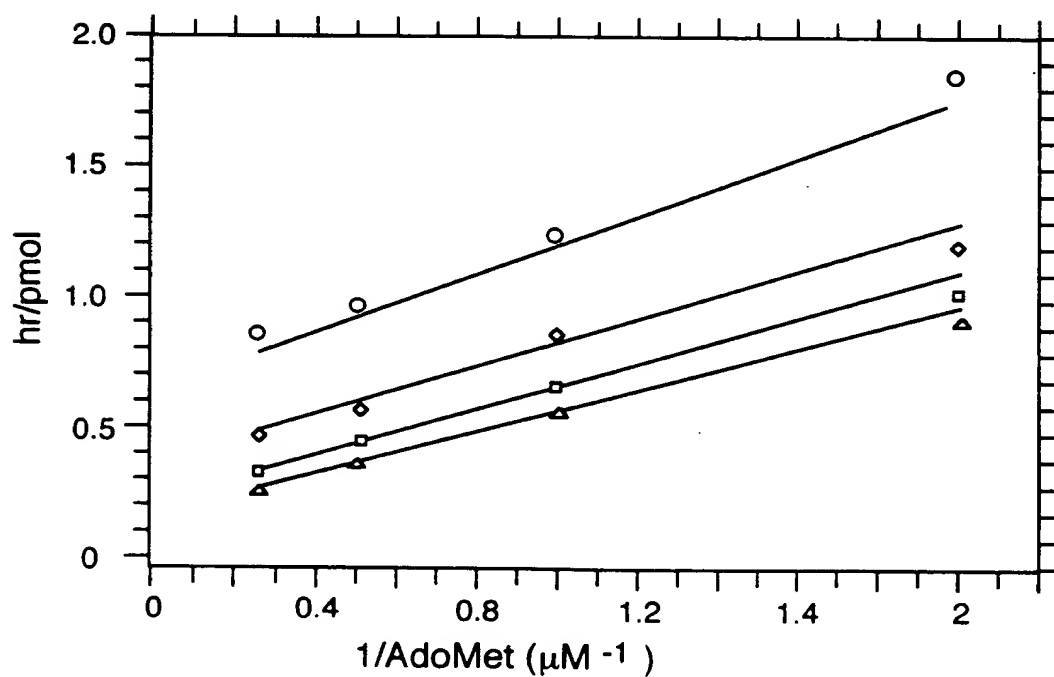


FIG.12b.



BEST AVAILABLE COPY

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

FIG.14.

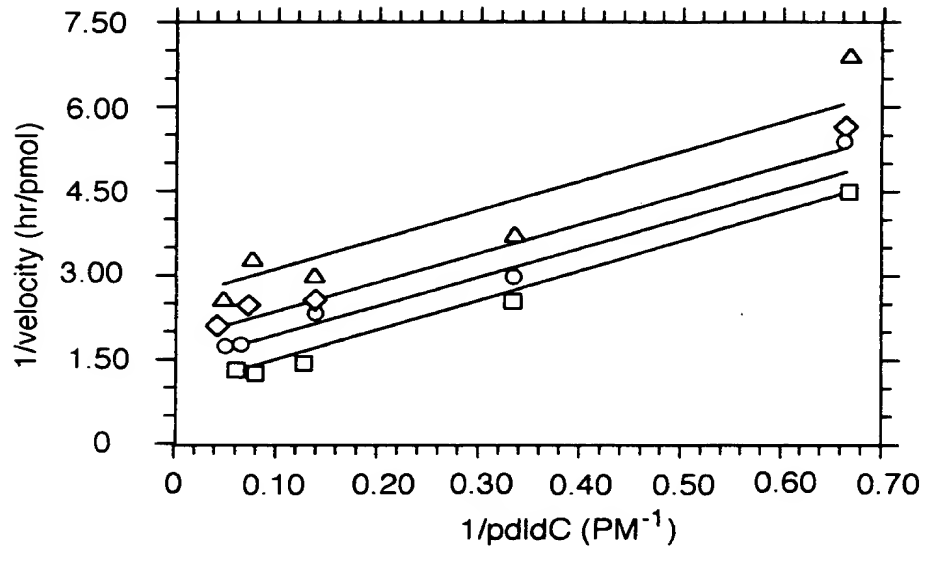
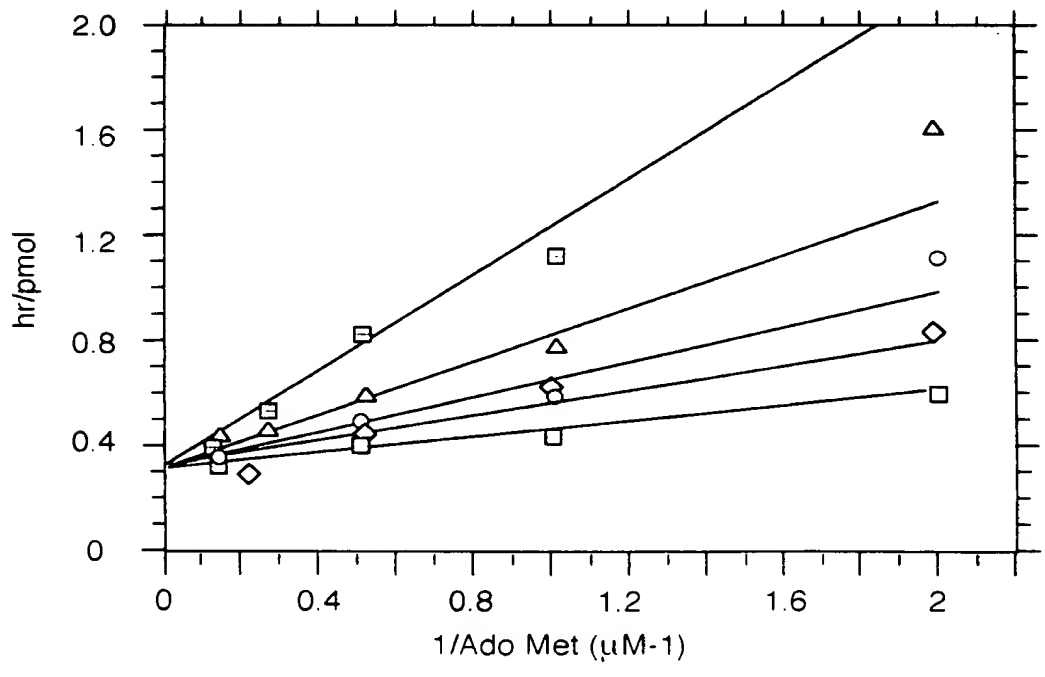


FIG.16.

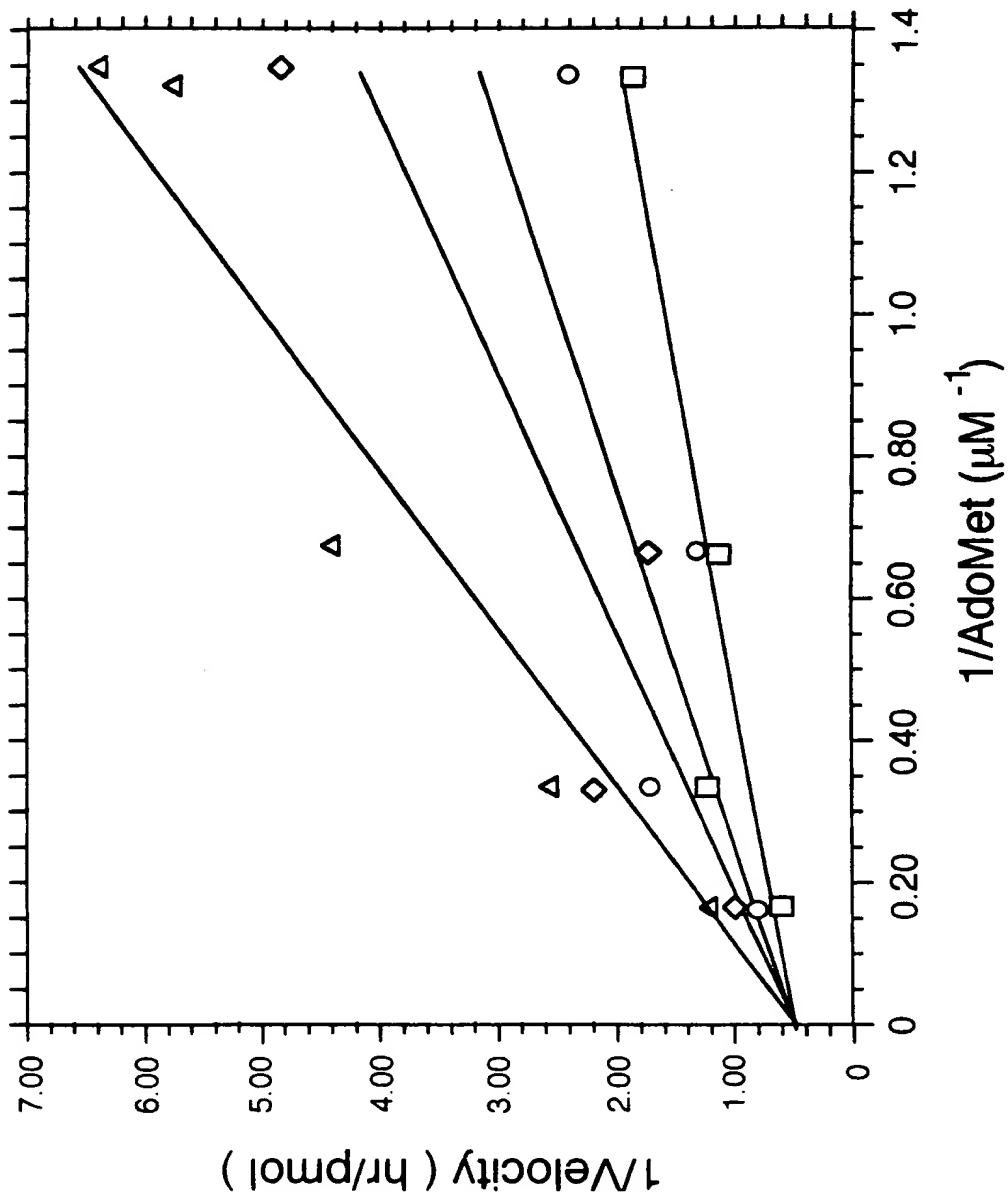


APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

PCT/US 98 / 12351
RO/US 11 SEP 1998

22/26

FIG. 15.



BEST AVAILABLE COPY

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

PCT/US 98/12351
RO/US 11 SEP 1998

23/26

FIG. 17a.

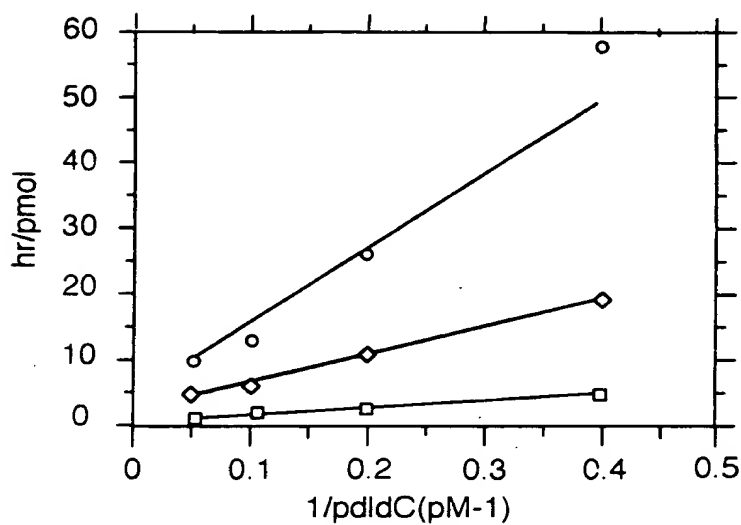


FIG. 17b.

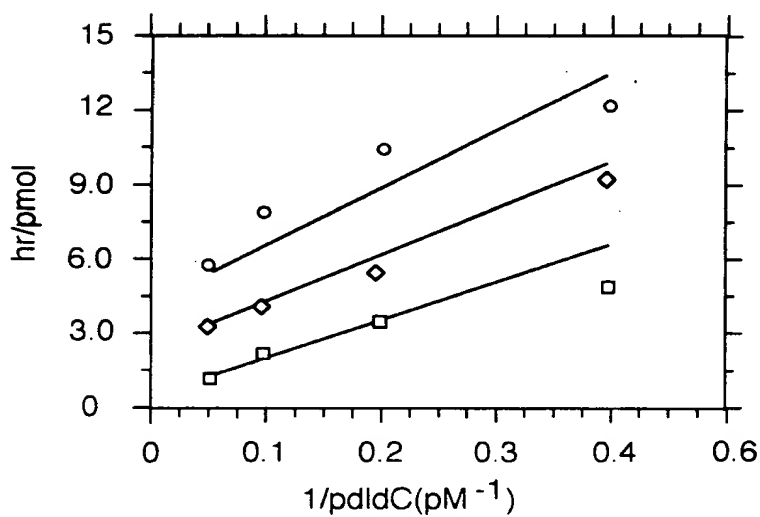
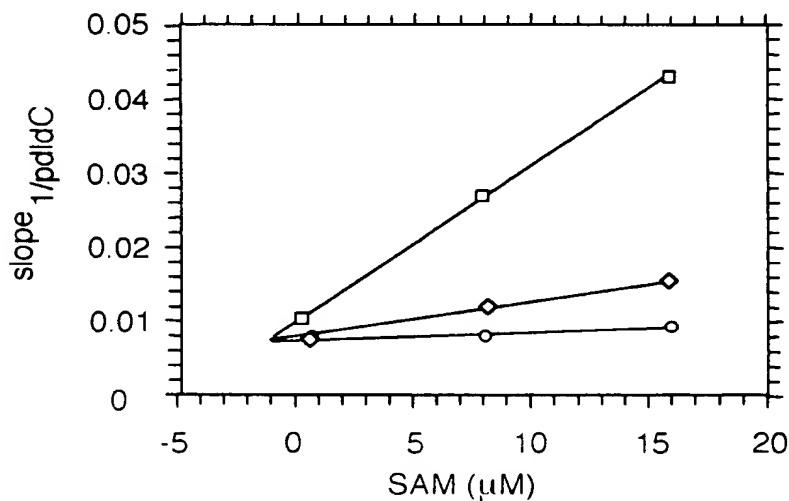


FIG. 17c.



00495074-020300

24/26

FIG. 18.

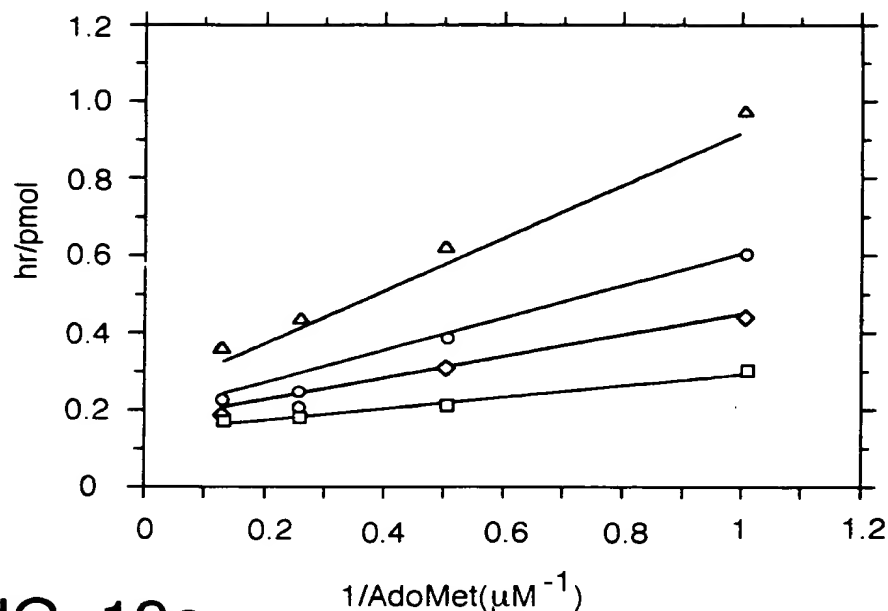


FIG. 19a.

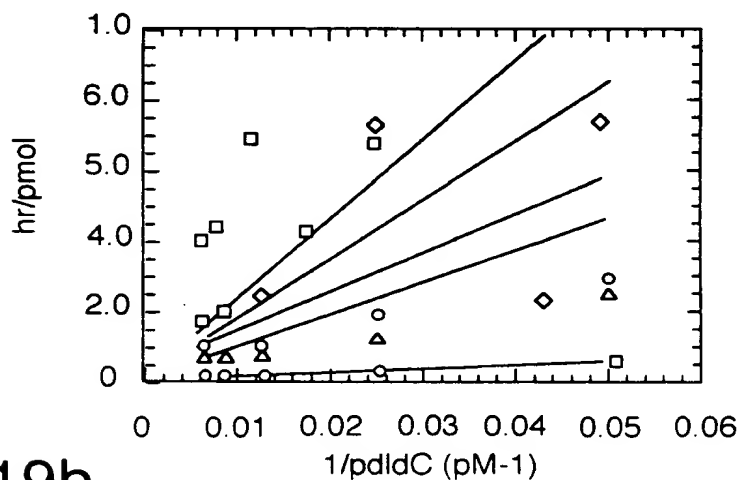
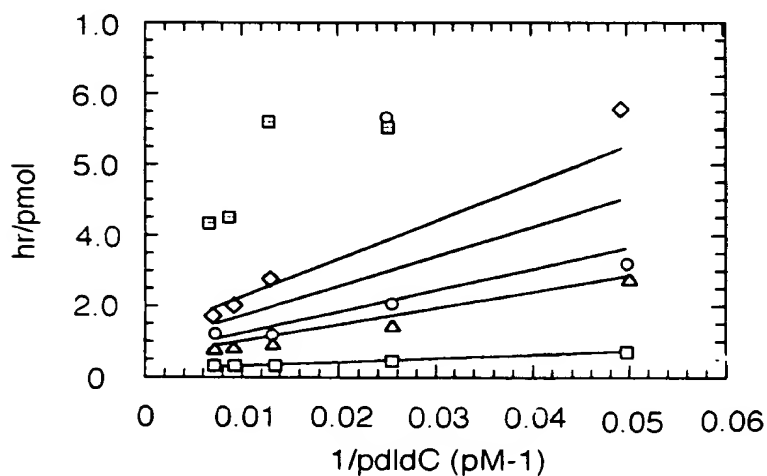


FIG. 19b.



SUBSTITUTE SHEET (RULE 26)

BEST AVAILABLE COPY

00495071-000000

25/26

FIG.20.

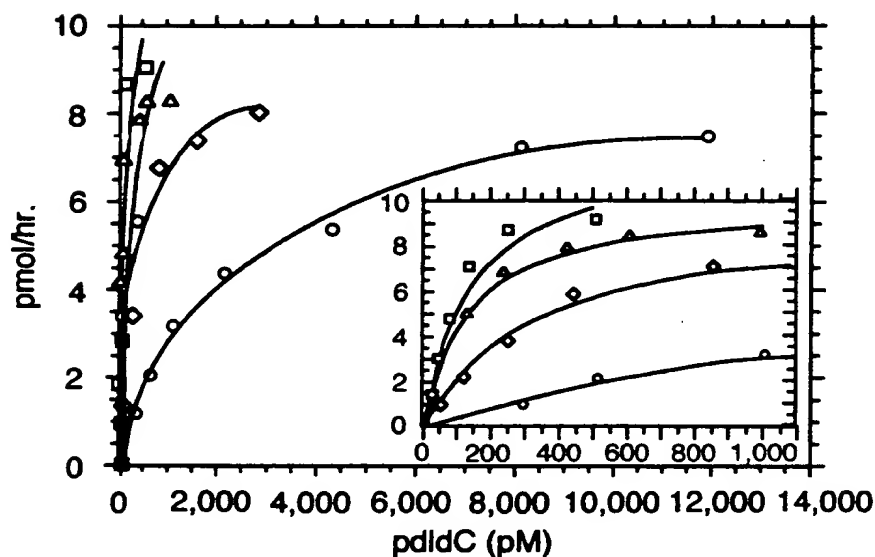


FIG.21.

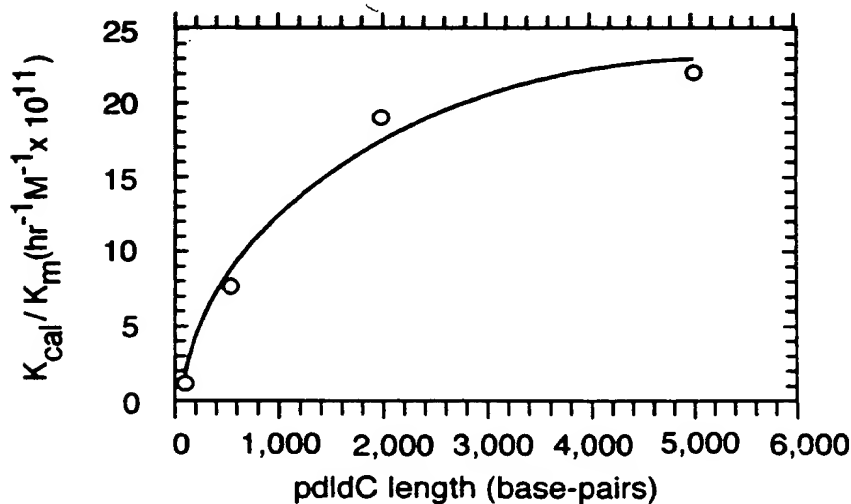


FIG.22.



26/26

FIG.23a.

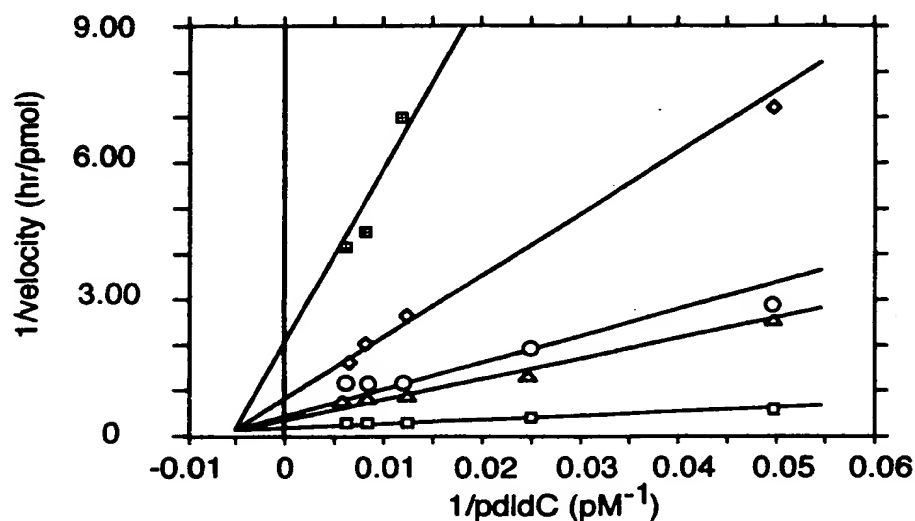


FIG.23b.

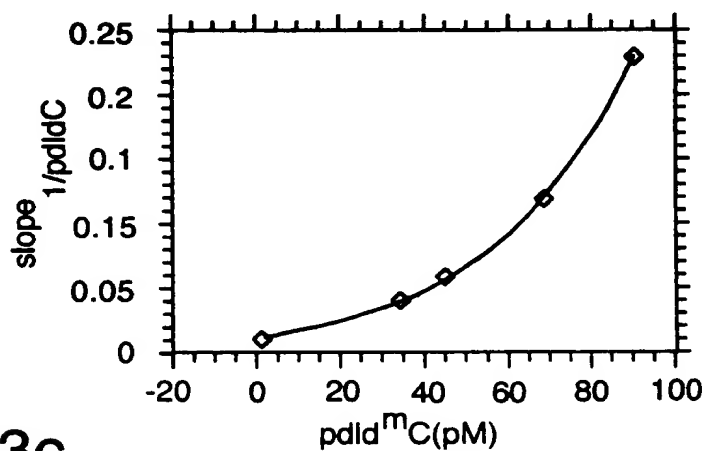
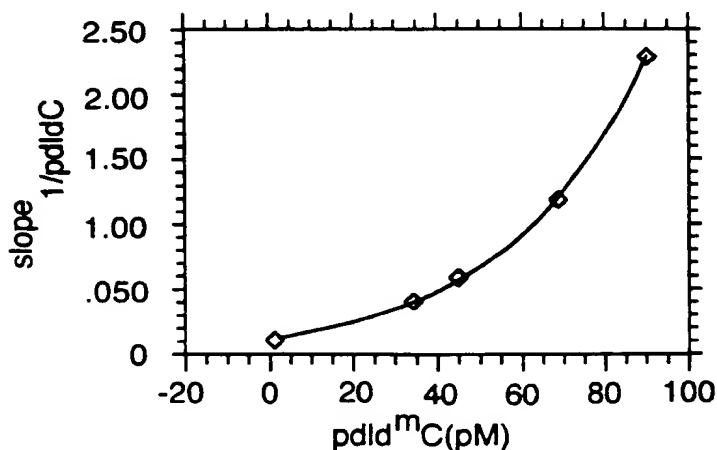


FIG.23c.



BEST AVAILABLE COPY